

AMENDMENTS TO THE CLAIMS

Please cancel claims 1-21, and add new claims 22-33, as follows:

Claims 1-21 (Cancelled).

Claim 22 (New) An impact-modified polymethyl methacrylate molding composition resistant to hot water cycles, wherein said impact-modified polymethyl methacrylate molding composition consists essentially of:

- 1) from 70 wt. % to 99 wt. % of a polymethyl methacrylate matrix composition having an average molar mass molecular weight of from 130,000 g/mol to 190,000 g/mol, wherein said polymethyl methacrylate matrix composition comprises:
 - a) from 80 wt. % to 99.5 wt. % methyl methacrylate; and
 - b) from 0.5 wt. % to 20.0 wt. % vinylic comonomer; and
- 2) from 1 wt. % to 15 wt. % of an impact-modifier composition in the form of a crosslinked elastomeric particle, wherein said impact-modifier composition comprises:
 - a) from 50 wt. % to 70 wt. % methyl methacrylate;
 - b) from 20 wt. % to 40 wt. % butyl acrylate, butadiene, or both;
 - c) from 0.1 wt. % to 2 wt. % allyl methacrylate; and
 - d) from 0.5 wt. % to 5 wt. % vinylic comonomer.

Claim 23 (New) The impact-modified polymethyl methacrylate molding composition resistant to hot water cycles according to Claim 22, wherein said vinylic comonomer is one or more vinylic comonomers selected from the group consisting of an alkyl acrylate, an alkyl methacrylate, and styrene.

Claim 24 (New) The impact-modified polymethyl methacrylate molding composition resistant to hot water cycles according to Claim 23, wherein said one or more vinylic comonomers is an alkyl acrylate selected from one or more C₁-C₄ alkyl acrylates.

Claim 25 (New) The impact-modified polymethyl methacrylate molding composition resistant to hot water cycles according to Claim 23, wherein said one or more vinylic comonomers is an alkyl methacrylate selected from one or more C₁-C₄ alkyl methacrylates.

Claim 26 (New) The impact-modified polymethyl methacrylate molding composition resistant to hot water cycles according to Claim 23, wherein said one or more vinylic comonomers is styrene.

Claim 27 (New) The impact-modified polymethyl methacrylate molding composition resistant to hot water cycles according to Claim 22, wherein said crosslinked elastomeric particle of said impact-modifier composition has an average particle size of from 100 nm to 500 μ m.

Claim 28 (New) The impact-modified polymethyl methacrylate molding composition resistant to hot water cycles according to Claim 22, wherein said impact-modified polymethyl methacrylate molding composition exhibits a flowability of about 10.0 cm³/10 minutes.

Claim 29 (New) The impact-modified polymethyl methacrylate molding composition resistant to hot water cycles according to Claim 22, wherein said impact-modified polymethyl methacrylate molding composition exhibits a Vicat softening temperature of greater than 105°C.

Claim 30 (New) An article consisting essentially of said impact-modified polymethyl methacrylate molding composition resistant to hot water cycles according to Claim 22.

Claim 31 (New) The article according to Claim 30, wherein said article is selected from the group consisting of a sheet, a shower tray, a bathtub, and a sunbed roof.

Claim 32 (New) A process of producing an article comprising melting said impact-modified polymethyl methacrylate molding composition resistant to hot water cycles according to Claim 22 to produce a melted impact-modified polymethyl methacrylate molding composition, and extruding or injection molding said melted impact-modified polymethyl methacrylate molding composition to produce said article.

Claim 33 (New) The process of producing an article according to Claim 32, wherein said article is selected from the group consisting of a sheet, a shower tray, a bathtub, and a sunbed roof.